BRUHATH BENGALURU MAHANAGARA PALIKE

EXECUTIVE ENGINEER, YELAHANKLA DIVISION

Name of Work: Repairs and Maintenance of existing borewells in ward no 03 Attur

DETAILED ESTIMATE

SL No	Particulars	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	MOTOR REWINDING								
	Rewinding of submersible pumpset with copper winding wires of appropriate guage, as per specifications and / or directions of the departmental officials, including all materials, labour, equipment and testing. for all types of submersible pumpsets etc.(with guarantee period not less than 6 months) for For all types of submersible pumpsets above 7.0 HP and upto 7.5H.P (BWSSB 'SR 2023-24 P- 147)								
1	For all types of submersible pumpsets above 10 HP and upto 11 H.P	No					30.00	5257.00	157710.00
2	For all types of submersible pumpsets above 12 HP and upto 13 H.P	No					30.00	5983.00	179490.00
	B) Repair of Pump parts								
	Replace the components of submersible pump sets, requiring replacements decided by the departmental officials, with respective make of damaged ones, including all materials, labour, equipments and testing etc.(with gurantee of period not less than 1 year) for: (BWSSB SR 2023-24 P- 145 I- 13.2.1 to 13.2.17)								
3	The bowls of same type and make	Each					30.00	1500.00	45000.00
4	The Intermediate piece (IP) with IP leaded bronze brush.	Each					30.00	1050.00	31500.00
5	The Oil Seal.	Each					30.00	350.00	10500.00
6	The Oil Seal.and steel bush	Each					30.00	250.00	7500.00
7	The Guide Vane	Each					30.00	700.00	21000.00
8	The Impeller (Shell moulded with aluminium and bronze.)	Each					30.00	1500.00	45000.00
9	The discharge outlet (DO) bearing DO steel brush DO bearing	Each					30.00	2050.00	61500.00
10	The steel bearing bush (DO steel bush)	Each					30.00	400.00	12000.00
11	The allen screw	Each					30.00	1200.00	36000.00
12	The pump shaft made out of stainless steel counterless ground with key way (upto 8 stages). Extra for Each stage @ Rs.40/-.	Each					30.00	1500.00	45000.00
13	Pump key (stainless steel)	Each					30.00	650.00	19500.00
14	Pump coupling (stainless steel)	Each					30.00	1500.00	45000.00
15	Non-return valve (NRV) assembly complete with rubber 'O' ring	Each					30.00	650.00	19500.00
16	Cable Guad	Each					30.00	350.00	10500.00
17	Strainer	Each					30.00	450.00	13500.00
18	Brass filter	Each					30.00	1050.00	31500.00
19	The Labour Charges for overhauling of the pump set.	Each					30.00	900.00	27000.00

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SL No	Particulars	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
	C.Replacement of Motor parts Replace the components of motor parts of submersible pump sets, items requiring replacements decided by the departmental officials, with respective make of damaged ones, including all materials, labour, equipments and testing etc and wtih guarantee/warranty for one year for: (BWSSB, SR 2023-24, Page No. 148, Item No.13.3.7 to 13.3.21)								
20	Upper Flange	Each					30.00	650.00	19500.00
21	Lower Flange	Each					30.00	650.00	19500.00
22	Lower Housing	Each					30.00	1200.00	36000.00
23	Lock Ring	Each					30.00	350.00	10500.00
24	Carbon Housing	Each					30.00	2000.00	60000.00
25	The Carbon Housing (Thrust bearing block assembly complete with segment bearing pad.	Each					30.00	2200.00	66000.00
26	The Carbon Housing (Top carbond / ferrodo padding)	Each					29.00	350.00	10150.00
27	Stud and Nuts	Each					30.00	200.00	6000.00
28	The Gun Metal bearing, centrifugally cast Aluminium Bronze bearing bush	Each					30.00	850.00	25500.00
29	Circlips	Each					30.00	200.00	6000.00
30	Motor base with pin	Each					30.00	500.00	15000.00
31	Transportotion of pumping machineries	Each					30.00	1500.00	45000.00
32	Labour charges Over hauling only) Motar	Each					30.00	3000.00	90000.00
33	Labour charges for Lifting of non functioning submersible pump set along with cable and GI pipes (Each length = 6m)). for 50 mm (BW SSB SR 2023-24 P- 142 Item No.12.24)								
		Job	30	30.00			900.00		
							900.00	229.00	206100.00
34	Labour charges for Erection of new / repaired submersible pump set along with GI pipes (32mm / 50mm), cable (New submersible pump set if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (Each length = 6 m) (BWSSB SR 2023-24 P- 142 Item No.-12.28)								
		Job	30	30.00			900.00		
							900.00	187.00	168300.00
35	Supplying and Drawing 3 Core Flat PVC Shelted Submerisible Pump Cable Manufactured With Electrolytic grade copper with flexible copper conductor confirming to table 3 class 5of IS 8130-1984 and Virgin PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts as per IS-694:1990. 3C x 4.0Sqm (Page No:7 Iten No:2.6.2 ELE SR SR 2023-24)								
		RMT							
							170.00	168.00	28560.00
36	Supplying and Drawing 3 Core Flat PVC Shelted Submerisible Pump Cable Manufactured With Electrolytic grade copper with flexible copper conductor confirming to table 3 class 5of IS 8130-1984 and Virgin PVC insulation and Sheeated Suitable for working Voltage Upto 1100 Volts as per IS-694:1990. 3C x 6.0Sqm (Page No:7 Iten No:2.6.3 ELE SR SR 2023-24)								
		RMT							
							170.00	245.00	41650.00
37	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (PWD Electrical SR 2023-24 P-18, I- 5.18.9)								
		Each							
			5				5.00	3088.00	15440.00

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Sl No	Particulars	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in Rs.
38	Supplying & fixing of Porcelain fuse channel with cutout on existing wooden/panel using necessary nuts, bolts and washers. (PWD Electrical SR 2023-24 P-14, I-5.7.3)								
		Each							
			5				5.00	401.00	2005.00
	Providing Submersible Pump Set of 150mm dia suitable for bore well and confirming to IS 8034-2000;3Phase, SS Bowl & Impeller with Low volt Motor as per specifications, to work site as per necessary ammendments and instructions of engineer incharge of work.(BWSSB 2023-24, P-153, I-13.17.7, 13.16.7 & 13.18.6)								
39	**For 12.50 HP - 90 LPM @ 264 m = 24 STG Outlet Dia - 2.00"**	No							
			2				2.00	64128.00	128256.00
40	**15.00 HP - 120 LPM @ 266 m = 23 STG Outlet Dia - 2.00"**	No							
	BHEL Layout and Adithya Nagara		2				2.00	69344.00	138688.00
41	Supply and delivery at site of brand new best make non-return valve as per IS 778/1984 with ISI Mark and as per its latest amendments Size 50mm dia (BWSSB SR 2023-24, P.154, I-13.25.1)								
		Each							
			5				5.00	1250.00	6250.00
42	Supply and delivery at site wrought middle steel (galvanized) GI union confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI Union (BWSSB SR 2023-24 P-131, I-11.12.6)								
		Each							
			5				5.00	267.00	1335.00
43	Supply and delivery at site wrought middle steel (galvanized) GI elbow confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI Union (BWSSB SR 2023-24 P-129, I-11.7.6)								
		Each							
			5				5.00	267.00	1335.00
44	Supply and delivery at site wrought middle steel (galvanized) GI hexagonal nipple confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI hexagonal nipple (BWSSB SR 2023-24 P-132, I-11.14.6)								
		Each							
			5				5.00	213.00	1065.00
45	Providing wrought mild steel (galvanized) GI collar confirming to IS 1239-II, 1991 with latest amendments if any. For 50 mm dia GI collar (BWSSB SR 2023-24 P-129, I-11.14.6)								
		Nos							
			80				80.00	267.00	21360.00
46	Logging / scanning of borewell at any depth continuously with the help of Logger unit including the cost of transportation charges, crew charges, stationery charges and cost of consumables etc. (BWSSB SR 2023-24 P-140, I-12.7)								
		Each							
			5				5.00	3674.00	18370.00
47	Lifting of struck up Submersible Pump set, upto 300 ft (BWSSB SR 2023-24 P-142, I-12.26)								
		Job							
			5				5.00	6806.00	34030.00

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SL No	Particulars	Unit	Nos	L in m	B in m	D in m	Quantity	Rate in Rs.	Amount in R.
48	Cutting and threading G.I. pipes for pump fitting, public fountains with appurtenances., where the length of pipe laid is less than 6 metres Pipes of dia 32mm to 80mm (BWSSB SR 2023-24 P-15, I-2.2.2)								
		Each							
			242				242.00	322.00	77924.00
								Total Construction Cost	2118518.00
								Add GST Charges 18%	381333.00
								Sub Total-2	2499851.00
								Misc and rounding off	149.00
								Grand Total Amount	2500000.00

Certificate:

1. The work spot has been inspected and found to be necessary
2. The provisions made in the estimate are necessary and minimum
3. The estimate is based on CSR of 2023-24 (KPWD, ELE, BWSSB)

Assistant Engineer
Ward No.03
BBMP, Bangalore

Assistant Executive Engineer
Yelahanka Satellite Town Sub Division
BBMP, Bangalore

Executive Engineer
Yelahanka Division
BBMP, Bangalore

Administrative Sanction for Rs. ....25.00 Lakhs.
... Rupees Twenty Five lakhs.....
....
is accorded under head ....P-1802.....
....
.....
Registered as CE No. ....21..... Subject
to ... as contained in enclosed memo
No. BBMP/EE/YNK-01/AS/21/23-24 Dt. 2/2/24

Executive Engineer

Technical Sanction
Accorded For Rs. 25.00 Lakhs.
Head of A/C P-1802
CER NO : 69 Dt. 2/2/24

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